



Analytical Laboratory

Analytical Lab
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13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13120249

Project Name: NPDES -LOW LEVEL HG(1631)

Customer Name(s): Michael Byrd, Craig Mercer, Mark J Harper, Todd Spade, Matthew Hoyt, Desiree

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Mary Ann Ogle

Phone: 980-875-5274

Report Authorized By:
(Signature)

Mary Ann Ogle

Date:

12/18/2013

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013029882	MIAMI-FORT	02-Dec-13 5:00 PM	Katie Pritchard	STATION 601 (7) WWT
2013029883	MIAMI-FORT	02-Dec-13 5:05 PM	Katie Pritchard	STATION 601 (8) WWT
2013029884	MIAMI-FORT	02-Dec-13 5:20 PM	Katie Pritchard	RIVER INTAKE (RI) FB
2013029885	MIAMI-FORT	02-Dec-13 5:25 PM	Katie Pritchard	RIVER INTAKE (RI)
2013029886	MIAMI-FORT	03-Dec-13 8:45 AM	Katie Pritchard	OUTFALL 608 FB
2013029887	MIAMI-FORT	03-Dec-13 8:50 AM	Katie Pritchard	OUTFALL 608
2013029888	MIAMI-FORT	03-Dec-13 8:55 AM	Katie Pritchard	OUTFALL 608 DUP
2013029890	MIAMI-FORT	03-Dec-13 9:10 AM	Katie Pritchard	OUTFALL 002 FB
2013029891	MIAMI-FORT	03-Dec-13 9:15 AM	Katie Pritchard	OUTFALL 002
2013029892	MIAMI-FORT	03-Dec-13 9:20 AM	Katie Pritchard	OUTFALL 002 DUP
2013029893	MIAMI-FORT	03-Dec-13	Katie Pritchard	TRIP BLANK
11 Total Samples				

Technical Validation Review

Checklist:

- | | | |
|--|---|--|
| COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All Results are less than the laboratory reporting limits. | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All laboratory QA/QC requirements are acceptable. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Report Sections Included:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separatel |

Reviewed By: Mary Ann Ogle

Date: 12/18/2013

Certificate of Laboratory Analysis

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Order # J13120249

Site: STATION 601 (7) WWT

Collection Date: 02-Dec-13 5:00 PM

Sample #: 2013029882

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: STATION 601 (8) WWT

Collection Date: 02-Dec-13 5:05 PM

Sample #: 2013029883

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: RIVER INTAKE (RI) FB

Collection Date: 02-Dec-13 5:20 PM

Sample #: 2013029884

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: RIVER INTAKE (RI)

Collection Date: 02-Dec-13 5:25 PM

Sample #: 2013029885

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: OUTFALL 608 FB

Collection Date: 03-Dec-13 8:45 AM

Sample #: 2013029886

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

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This report shall not be reproduced, except in full.

Order # J13120249

Site: OUTFALL 608

Collection Date: 03-Dec-13 8:50 AM

Sample #: 2013029887

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: OUTFALL 608 DUP

Collection Date: 03-Dec-13 8:55 AM

Sample #: 2013029888

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: OUTFALL 002 FB

Collection Date: 03-Dec-13 9:10 AM

Sample #: 2013029890

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: OUTFALL 002

Collection Date: 03-Dec-13 9:15 AM

Sample #: 2013029891

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: OUTFALL 002 DUP

Collection Date: 03-Dec-13 9:20 AM

Sample #: 2013029892

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>MERCURY IN WATER - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13120249

Site: TRIP BLANK	Sample #: 2013029893
Collection Date: 03-Dec-13	Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
MERCURY IN WATER - (Analysis Performed by Test America)								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-32015-1

Client Project/Site: Miami Fort Station (Hg-1631) - J13120249

For:

Duke Energy Corporation

139 East Fourth Street

Cincinnati, Ohio 45202

Attn: Tara Thomas

Denise Pohl

Authorized for release by:

12/17/2013 8:35:00 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Job ID: 240-32015-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Miami Fort Station (Hg-1631) - J13120249

Report Number: 240-32015-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/04/2013; the samples arrived in good condition. The temperature of the cooler at receipt was 13.6 C.

DISSOLVED LOW LEVEL MERCURY

Sample OUTFALL 608 DISS (240-32015-8) was analyzed for dissolved Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 12/10/2013 and analyzed on 12/11/2013.

Sample OUTFALL 608 DISS (240-32015-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analysis.

All quality control parameters were within the acceptance limits.

LOW LEVEL MERCURY

Samples STATION 601 (7) WWT (240-32015-1), STATION 601 (8) WWT (240-32015-2), RIVER INTAKE (RI) FB (240-32015-3), RIVER INTAKE (RI) (240-32015-4), OUTFALL 608 FB (240-32015-5), OUTFALL 608 (240-32015-6), OUTFALL 608 DUP (240-32015-7), OUTFALL 002 FB (240-32015-9), OUTFALL 002 (240-32015-10), OUTFALL 002 DUP (240-32015-11) and TRIP BLANK (240-32015-12) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 12/05/2013 and analyzed on

Case Narrative

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Job ID: 240-32015-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

12/09/2013 and 12/10/2013.

Samples STATION 601 (7) WWT (240-32015-1)[1000X], STATION 601 (8) WWT (240-32015-2)[1000X], RIVER INTAKE (RI) (240-32015-4) [10X], OUTFALL 608 (240-32015-6)[20X], OUTFALL 608 DUP (240-32015-7)[20X], OUTFALL 002 (240-32015-10)[10X], OUTFALL 002 DUP (240-32015-11)[10X] and TRIP BLANK (240-32015-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analysis.

All quality control parameters were within the acceptance limits.

Method Summary

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-32015-1	STATION 601 (7) WWT	Water	12/02/13 17:00	12/04/13 09:10
240-32015-2	STATION 601 (8) WWT	Water	12/02/13 17:05	12/04/13 09:10
240-32015-3	RIVER INTAKE (RI) FB	Water	12/02/13 17:20	12/04/13 09:10
240-32015-4	RIVER INTAKE (RI)	Water	12/02/13 17:25	12/04/13 09:10
240-32015-5	OUTFALL 608 FB	Water	12/03/13 08:45	12/04/13 09:10
240-32015-6	OUTFALL 608	Water	12/03/13 08:50	12/04/13 09:10
240-32015-7	OUTFALL 608 DUP	Water	12/03/13 08:55	12/04/13 09:10
240-32015-8	OUTFALL 608 DISS	Water	12/03/13 09:00	12/04/13 09:10
240-32015-9	OUTFALL 002 FB	Water	12/03/13 09:10	12/04/13 09:10
240-32015-10	OUTFALL 002	Water	12/03/13 09:15	12/04/13 09:10
240-32015-11	OUTFALL 002 DUP	Water	12/03/13 09:20	12/04/13 09:10
240-32015-12	TRIP BLANK	Water	12/03/13 00:00	12/04/13 09:10

TestAmerica Canton

Detection Summary

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: STATION 601 (7) WWT

Lab Sample ID: 240-32015-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	480000		20000	ng/L	1000		1631E	Total/NA

Client Sample ID: STATION 601 (8) WWT

Lab Sample ID: 240-32015-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	470000		20000	ng/L	1000		1631E	Total/NA

Client Sample ID: RIVER INTAKE (RI) FB

Lab Sample ID: 240-32015-3

No Detections.

Client Sample ID: RIVER INTAKE (RI)

Lab Sample ID: 240-32015-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	6.9		5.0	ng/L	10		1631E	Total/NA

Client Sample ID: OUTFALL 608 FB

Lab Sample ID: 240-32015-5

No Detections.

Client Sample ID: OUTFALL 608

Lab Sample ID: 240-32015-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	130		10	ng/L	20		1631E	Total/NA

Client Sample ID: OUTFALL 608 DUP

Lab Sample ID: 240-32015-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	130		10	ng/L	20		1631E	Total/NA

Client Sample ID: OUTFALL 608 DISS

Lab Sample ID: 240-32015-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	15		2.5	ng/L	5		1631E	Dissolved

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-32015-9

No Detections.

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-32015-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	13		5.0	ng/L	10		1631E	Total/NA

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-32015-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	14		5.0	ng/L	10		1631E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-32015-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

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Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: STATION 601 (7) WWT

Lab Sample ID: 240-32015-1

Date Collected: 12/02/13 17:00

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	480000		20000	ng/L		12/05/13 09:08	12/10/13 08:34	1000

TestAmerica Canton

Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: STATION 601 (8) WWT

Lab Sample ID: 240-32015-2

Date Collected: 12/02/13 17:05

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	470000		20000	ng/L		12/05/13 09:08	12/10/13 08:38	1000

Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: RIVER INTAKE (RI) FB

Lab Sample ID: 240-32015-3

Date Collected: 12/02/13 17:20

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/05/13 09:08	12/09/13 17:56	1

TestAmerica Canton

Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: RIVER INTAKE (RI)

Lab Sample ID: 240-32015-4

Date Collected: 12/02/13 17:25

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.9		5.0	ng/L		12/05/13 09:08	12/09/13 18:00	10

Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 608 FB

Lab Sample ID: 240-32015-5

Date Collected: 12/03/13 08:45

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/05/13 09:08	12/09/13 18:12	1

TestAmerica Canton

Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 608

Lab Sample ID: 240-32015-6

Date Collected: 12/03/13 08:50

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	130		10	ng/L		12/05/13 09:08	12/09/13 18:15	20

TestAmerica Canton

Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 608 DUP

Lab Sample ID: 240-32015-7

Date Collected: 12/03/13 08:55

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	130		10	ng/L		12/05/13 09:08	12/09/13 18:19	20

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Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 608 DISS

Lab Sample ID: 240-32015-8

Date Collected: 12/03/13 09:00

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15		2.5	ng/L		12/10/13 16:12	12/11/13 13:49	5

Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-32015-9

Date Collected: 12/03/13 09:10

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/05/13 09:08	12/09/13 18:23	1

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Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-32015-10

Date Collected: 12/03/13 09:15

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		5.0	ng/L		12/05/13 09:08	12/09/13 18:26	10

TestAmerica Canton

Client Sample Results

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-32015-11

Date Collected: 12/03/13 09:20

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14		5.0	ng/L		12/05/13 09:08	12/09/13 18:30	10

TestAmerica Canton

Client Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-32015-12

Date Collected: 12/03/13 00:00

Matrix: Water

Date Received: 12/04/13 09:10

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.0	U	5.0	ng/L		12/05/13 08:50	12/09/13 14:16	10

QC Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-112382/1-A

Matrix: Water

Analysis Batch: 112957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112382

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/05/13 08:50	12/09/13 12:40	1

Lab Sample ID: LCS 240-112382/2-A

Matrix: Water

Analysis Batch: 112957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.01		ng/L		100	77 - 123

Lab Sample ID: MB 240-112388/1-A

Matrix: Water

Analysis Batch: 112957

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112388

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/05/13 09:08	12/09/13 16:56	1

Lab Sample ID: LCS 240-112388/2-A

Matrix: Water

Analysis Batch: 112957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.64		ng/L		93	77 - 123

Lab Sample ID: 240-32015-4 MS

Matrix: Water

Analysis Batch: 112957

Client Sample ID: RIVER INTAKE (RI)

Prep Type: Total/NA

Prep Batch: 112388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	6.9		50.0	50.8		ng/L		88	71 - 125

Lab Sample ID: 240-32015-4 MSD

Matrix: Water

Analysis Batch: 112957

Client Sample ID: RIVER INTAKE (RI)

Prep Type: Total/NA

Prep Batch: 112388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	6.9		50.0	49.8		ng/L		86	71 - 125	2	24

Lab Sample ID: MB 240-113085/1-A

Matrix: Water

Analysis Batch: 113211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113085

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/13 16:12	12/11/13 12:07	1

Lab Sample ID: LCS 240-113085/2-A

Matrix: Water

Analysis Batch: 113211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.25		ng/L		85	77 - 123

TestAmerica Canton

QC Sample Results

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Lab Sample ID: PB 240-113082/1-B PB
Matrix: Water
Analysis Batch: 113211

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 113085

Analyte	PB Result	PB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/13 16:12	12/11/13 13:46	1

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QC Association Summary

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Metals

Prep Batch: 112382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-12	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-112382/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-112382/1-A	Method Blank	Total/NA	Water	1631E	

Prep Batch: 112388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-1	STATION 601 (7) WWT	Total/NA	Water	1631E	
240-32015-2	STATION 601 (8) WWT	Total/NA	Water	1631E	
240-32015-3	RIVER INTAKE (RI) FB	Total/NA	Water	1631E	
240-32015-4	RIVER INTAKE (RI)	Total/NA	Water	1631E	
240-32015-4 MS	RIVER INTAKE (RI)	Total/NA	Water	1631E	
240-32015-4 MSD	RIVER INTAKE (RI)	Total/NA	Water	1631E	
240-32015-5	OUTFALL 608 FB	Total/NA	Water	1631E	
240-32015-6	OUTFALL 608	Total/NA	Water	1631E	
240-32015-7	OUTFALL 608 DUP	Total/NA	Water	1631E	
240-32015-9	OUTFALL 002 FB	Total/NA	Water	1631E	
240-32015-10	OUTFALL 002	Total/NA	Water	1631E	
240-32015-11	OUTFALL 002 DUP	Total/NA	Water	1631E	
LCS 240-112388/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-112388/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 112957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-1	STATION 601 (7) WWT	Total/NA	Water	1631E	112388
240-32015-2	STATION 601 (8) WWT	Total/NA	Water	1631E	112388
240-32015-3	RIVER INTAKE (RI) FB	Total/NA	Water	1631E	112388
240-32015-4	RIVER INTAKE (RI)	Total/NA	Water	1631E	112388
240-32015-4 MS	RIVER INTAKE (RI)	Total/NA	Water	1631E	112388
240-32015-4 MSD	RIVER INTAKE (RI)	Total/NA	Water	1631E	112388
240-32015-5	OUTFALL 608 FB	Total/NA	Water	1631E	112388
240-32015-6	OUTFALL 608	Total/NA	Water	1631E	112388
240-32015-7	OUTFALL 608 DUP	Total/NA	Water	1631E	112388
240-32015-9	OUTFALL 002 FB	Total/NA	Water	1631E	112388
240-32015-10	OUTFALL 002	Total/NA	Water	1631E	112388
240-32015-11	OUTFALL 002 DUP	Total/NA	Water	1631E	112388
240-32015-12	TRIP BLANK	Total/NA	Water	1631E	112382
LCS 240-112382/2-A	Lab Control Sample	Total/NA	Water	1631E	112382
LCS 240-112388/2-A	Lab Control Sample	Total/NA	Water	1631E	112388
MB 240-112382/1-A	Method Blank	Total/NA	Water	1631E	112382
MB 240-112388/1-A	Method Blank	Total/NA	Water	1631E	112388

Filtration Batch: 113082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-8	OUTFALL 608 DISS	Dissolved	Water	Filtration	
PB 240-113082/1-B PB	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 113085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-8	OUTFALL 608 DISS	Dissolved	Water	1631E	113082
LCS 240-113085/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-113085/1-A	Method Blank	Total/NA	Water	1631E	

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QC Association Summary

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Metals (Continued)

Prep Batch: 113085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
PB 240-113082/1-B PB	Method Blank	Dissolved	Water	1631E	113082

Analysis Batch: 113211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-32015-8	OUTFALL 608 DISS	Dissolved	Water	1631E	113085
LCS 240-113085/2-A	Lab Control Sample	Total/NA	Water	1631E	113085
MB 240-113085/1-A	Method Blank	Total/NA	Water	1631E	113085
PB 240-113082/1-B PB	Method Blank	Dissolved	Water	1631E	113085

Lab Chronicle

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: STATION 601 (7) WWT

Date Collected: 12/02/13 17:00

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		1000	112957	12/10/13 08:34	DSH	TAL CAN

Client Sample ID: STATION 601 (8) WWT

Date Collected: 12/02/13 17:05

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		1000	112957	12/10/13 08:38	DSH	TAL CAN

Client Sample ID: RIVER INTAKE (RI) FB

Date Collected: 12/02/13 17:20

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		1	112957	12/09/13 17:56	DSH	TAL CAN

Client Sample ID: RIVER INTAKE (RI)

Date Collected: 12/02/13 17:25

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		10	112957	12/09/13 18:00	DSH	TAL CAN

Client Sample ID: OUTFALL 608 FB

Date Collected: 12/03/13 08:45

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		1	112957	12/09/13 18:12	DSH	TAL CAN

Client Sample ID: OUTFALL 608

Date Collected: 12/03/13 08:50

Date Received: 12/04/13 09:10

Lab Sample ID: 240-32015-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		20	112957	12/09/13 18:15	DSH	TAL CAN

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Lab Chronicle

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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Client Sample ID: OUTFALL 608 DUP

Lab Sample ID: 240-32015-7

Date Collected: 12/03/13 08:55

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		20	112957	12/09/13 18:19	DSH	TAL CAN

Client Sample ID: OUTFALL 608 DISS

Lab Sample ID: 240-32015-8

Date Collected: 12/03/13 09:00

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			113082	12/04/13 14:06	ADS	TAL CAN
Dissolved	Prep	1631E			113085	12/10/13 16:12	ADS	TAL CAN
Dissolved	Analysis	1631E		5	113211	12/11/13 13:49	ADS	TAL CAN

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-32015-9

Date Collected: 12/03/13 09:10

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		1	112957	12/09/13 18:23	DSH	TAL CAN

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-32015-10

Date Collected: 12/03/13 09:15

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		10	112957	12/09/13 18:26	DSH	TAL CAN

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-32015-11

Date Collected: 12/03/13 09:20

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112388	12/05/13 09:08	DSH	TAL CAN
Total/NA	Analysis	1631E		10	112957	12/09/13 18:30	DSH	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-32015-12

Date Collected: 12/03/13 00:00

Matrix: Water

Date Received: 12/04/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			112382	12/05/13 08:50	DSH	TAL CAN
Total/NA	Analysis	1631E		10	112957	12/09/13 14:16	DSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

Analytical Lab
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TestAmerica Job ID: 240-32015-1

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Certification Summary

Analytical Lab
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Client: Duke Energy Corporation
Project/Site: Miami Fort Station (Hg-1631) - J13120249

TestAmerica Job ID: 240-32015-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13 *
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14 *
Kentucky (UST)	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14 *
West Virginia DEP	State Program	3	210	12-31-13 *
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-32015 Chain of Custody

13.6

[illegible]

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 32015

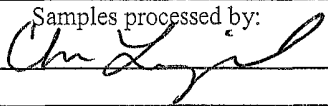
Analytical Lab
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Client <u>Duke Energy</u> Site Name _____		Cooler unpacked by: _____
Cooler Received on <u>12-4-13</u> Opened on <u>12-4-13</u>		
FedEx: 1 st <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Stetson <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other _____		
TestAmerica Cooler # _____ Foam Box <input checked="" type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other _____		
Packing material used: <u>Bubble Wrap</u> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other _____		
COOLANT: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input checked="" type="checkbox"/> <u>None</u>		

1. Cooler temperature upon receipt

IR GUN# A (CF +0 °C) Observed Cooler Temp. <u>13.6</u> °C	Corrected Cooler Temp. <u>13.6</u> °C	<input type="checkbox"/> See Multiple Cooler Form
IR GUN# 4 (CF -1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No
 - Were custody seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA
 - Were custody seals on the bottle(s)? ☐ Yes ☒ No
3. Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No
4. Did custody papers accompany the sample(s)? ☒ Yes ☐ No
5. Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No
6. Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No
7. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No
8. Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No
9. Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No
10. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☒ NA pH Strip Lot# HC391902
11. Were VOAs on the COC? Yes ☒ No ☐ NA
12. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA
13. Was a trip blank present in the cooler(s)? ☒ Yes ☐ No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	Samples processed by: _____ 
--	--

15. SAMPLE CONDITION Sample(s) _____ were received after the recommended holding time had expired. Sample(s) _____ were received in a broken container. Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)
16. SAMPLE PRESERVATION Sample(s) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____